Ministry of
Northern Development
and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

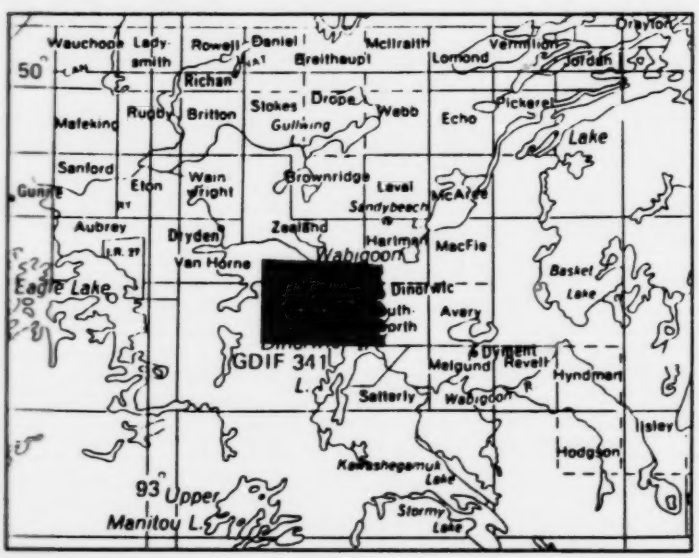
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 341

BUTLER LAKE AREA

DISTRICT OF KENORA

Compiled by the Staff of
the Resident Geologists Office
Kenora



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

'S Number 52F/10NE

87-06518/

....ning Claim Map Number M-2061, M-1986, G-2576 (M-2723), M-2041

This project is a component of the Northern Ontario Geological Survey (NOGS) Program.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey

1986: Butler Lake Area, District of Kenora; Ontario Geological Survey, Geological Data Inventory Folio 341 ; compiled by the staff of the Resident Geologist's Office, Kenora, 27 pages and 2 maps.

Original Compilation by: R. Schienbein

Date	Page Revised	Revised by

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Butler Lake Area

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Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	RS FEB/86
2	Assessment Files Research Office, Toronto	YES	RS FEB/86
3	ODM General Index; 9 volumes	YES	RS FEB/86
4	Catalogue of Airborne Geophysical Surveys (ODM)		
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	RS FEB/86
6	ODM Industrial Mineral Reports	NO	RS FEB/86
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)		
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	RS FEB/86
9	Newspaper Clippings File	YES	RS FEB/86
10	GSC Index to Publications		
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	RS FEB/86
12	OGS Index Maps	YES	RS FEB/86
13	Source Mineral Deposit Records (O.G.S.) and MDIR'S	YES	RS FEB/86
14	Author - Subject Articles File		
15	Miscellaneous Papers: ODM & OGS	YES	RS FEB/86
16	ODM Geological Circulars: OGS Study Series	NO	RS FEB/86
17	ODM Preliminary Reports: ODM Bulletins	NO	RS FEB/86
18	ODM – OGS Open File Reports	YES	RS FEB/86
19	OGS Northern Ontario Engineering Geology Terrain Studies	YES	RS FEB/86
20	OGS Aggregate Resources Inventory Papers	NO	RS FEB/86
21	OGS Mineral Potential Maps	YES	RS FEB/86
22	Theses on File, Kenora	NO	RS FEB/86
23	Aerial Photos on File, Kenora	YES	RS FEB/86
24	OBM Maps on File, Kenora	YES	RS FEB/86

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . Anhydrite	▲ fu. . . . . Fuchsite	△ Ni. . . . . Nickel	△ st . . . . . Stone
▲ ank. . . . . Ankerite	△ gn. . . . . Galena	△ Nb . . . . . Niobium	▲ talc. . . . . Talc
△ anna . . . . . Annabergite	△ gt . . . . . Garnet	△ Pd . . . . . Palladium	△ Te . . . . . Tellurium
△ ap. . . . . Apatite	△ goe . . . . . Goethite	△ peat . . . . . Peat	△ td. . . . . Tetrahedrite
△ arg . . . . . Argentite	▲ Au . . . . . Gold	△ pent . . . . . Pentlandite	△ th. . . . . Thorite
△ As . . . . . Arsenic	△ gf . . . . . Graphite	△ Pt. . . . . Platinum	△ Th . . . . . Thorium
▲ asp . . . . . Arsenopyrite	△ gl . . . . . Gravel	▲ py . . . . . Pyrite	△ thuc . . . . . Thucholite
△ asb . . . . . Asbestos	△ gyp. . . . . Gypsum	△ pyl . . . . . Pyrochlore	△ ti . . . . . Titanite
△ ba. . . . . Barite	△ hem . . . . . Hematite	△ pyrl . . . . . Pyrolusite	△ Ti. . . . . Titanium
△ be. . . . . Beryl	△ il . . . . . Ilmenite	▲ po . . . . . Pyrrhotite	▲ tour . . . . . Tourmaline
△ Bi. . . . . Bismuth	△ Fe . . . . . Iron	△ q . . . . . Quartz	△ trap . . . . . Trap rock
△ bn . . . . . Bornite	△ IF. . . . . Iron Formation	△ qcv . . . . Quartz carbonate vein	△ W. . . . . Tungsten
△ bran . . . . . Brannerite	△ jas . . . . . Jasper	△ ra . . . . . Radioactive minerals	△ uran . . . . . Uraninite
△ bruc . . . . . Brucite	△ kaol . . . . . Kaolinite (kaolin)	△ RE . . . . . Rare Earths	△ U . . . . . Uranium
△ Cd . . . . . Cadmium	△ ky . . . . . Kyanite	△ sd. . . . . Sand	△ verm . . . . . Vermiculite
▲ calc. . . . . Calcite	△ Pb . . . . . Lead	△ sgl . . . . . Sand and gravel	△ Y . . . . . Yttrium
△ carb . . . . . Carbonate	▲ lim . . . . . Limonite	△ ss . . . . . Sandstone	△ Zn . . . . . Zinc
△ cel . . . . . Celestite	△ Li. . . . . Lithium	△ scap . . . . . Scapolite	△ zr . . . . . Zircon
△ cc. . . . . Chalcocite	△ mgst . . . . . Magnesite	△ shee . . . . . Scheelite	△Sb. . . . . Antimony
▲ cp. . . . . Chalcopyrite	△ mag . . . . . Magnetite	△ serp . . . . . Serpentine	
△ ch. . . . . Chert	▲ mc . . . . . Malachite	△ sh. . . . . Shale	
△ clay . . . . . Clay	△ Mn . . . . . Manganese	△ sid . . . . . Siderite	
△ Co . . . . . Cobalt	△ mb . . . . . Marble	△ si . . . . . Silica	
△ cob. . . . . Cobaltite	▲ mar. . . . . Marcasite	▲ Ag . . . . . Silver	
△ cb. . . . . Columbite	△ ma . . . . . Marl	△ sl . . . . . Slate	
▲ Cu . . . . . Copper	△ mi . . . . . Mica	△ sm . . . . . Smaltite	
△ cor . . . . . Corundum	△ ml . . . . . Millerite	△ sod . . . . . Sodalite	
△ dol . . . . . Dolomite	△ mo . . . . . Molybdenite	△ spec . . . . . Specularite	
△ ep. . . . . Epidote	△ Mo . . . . . Molybdenum	▲ sp. . . . . Sphalerite	
△ ery . . . . . Erythrite	△ mon . . . . . Monazite	△ spd . . . . . Spodumene	
△ fel . . . . . Feldspar	△ ne. . . . . Nephelite (nepheline)	△ staur . . . . . Staurolite	
△ fl . . . . . Fluorite (flurospar)	△ nc. . . . . Niccolite	△ stib. . . . . Stibnite	

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

Butler Lake Area

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Barritt Bay Occurrence	py, tour			OBM Vol. 26 p.187 1917 report of shaft having been sunk on a series of small acid dikes. No assays reported.
B	Butler Lake (North shore) Occurrence	py, ank, tour, fu, Au, sp, cp, mc, Ag			MP 128, p.21 8 large test pits on quartz - carbonate veins, stringers and clots. Anomalous assays of Au, Zn, Cu, and Ag.
C	Pidgeon - Wabigoon Lake Occurrence (Indian Reserve No. 27 Occurrence)	py, tour, calc, Au, asp			MP 128, p. 21-22 Metavolcanics sheared in two directions.
D	Northern Queen Occurrence	cp, py, mar, lim, asp, po		MDC 16, p. 30	
E	Wabigoon Soapstone Co. Ltd. (Pidgeon Occurrence) (H.W. 133)	talc	MDIR # K 0260		ODM Vol. 32, pt. 6, p. 23 gives a description of the altered gabbro and a whole rock analyses of samples.
F	Unnamed				OGS Map 2443
G	Unnamed				OGS Map 2443

GDIF FORM NO. 1

Butler Lake Area

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KENORA COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
*1.	Asarco Exploration Company of Canada Limited 52F/10 NE; A-1				70 71	70														
2.	Canadian Nickel Company Ltd. 52F/10 NE; B-1				71 72															
3.	Canadian Nickel Company Ltd. 52F/10 NE; B-2				70 71	70														
4.	Canadian Nickel Company Ltd. 52F/10 NE; B-3 AFRO File: 2.1157											73								
5.	Canadian Nickel Company Ltd. 52F/10 NE; B-4				71															
6.	Euro-Dollar Development Ltd. 52F/10 NE; K-2 AFRO File: 2.2983											78			78					
7a.	Euro-Dollar Development Ltd. 52F/10 NE; K-3	78	78																	
7b.	Euro-Dollar Development Ltd. 52F/10 NE; K-4	78	78																	
8.	Euro-Dollar Development Ltd. 52F/10 NE; K-5											79 [1]								

*Numbers refer to Property Location Map.

GDIF FORM NO. 1

Butler Lake Area

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KENORA COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	BOREHOLE PULSE EM		
9.	Euro-Dollar Development Ltd. 52F/10 NE; K-6 AFRO File: 2.3424					79														
10.	Euro-Dollar Development Ltd. 52F/10 NE; K-7																	79		
11.	Euro-Dollar Development Ltd. 52F/10 NE; K-8				79															
12.	Euro Dollar Development Ltd. 52F/10 NE; K-9												79							
13.	Euro Dollar Development Ltd. 52F/10 NE; K-10 AFRO File: 2.3783												79-80							
14.	Euro-Dollar Development Ltd. 52F/10 NE; K-11				80	80														
15.	Euro-Dollar Development Ltd. 52F/10 NE; K-12				80															
16.	Euro-Dollar Development Ltd. 52F/10 NE; K-13				82															
17.	Euro-Dollar Development Ltd. 52F/10 NE; K-14				82															
18a.	Euro-Dollar Development Ltd. 52F/10 NE; K-15					79														

GDIF FORM NO. 5

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KENORA COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	BOREHOLE PULSE EM	DRILLHOLE ACID TESTS	
18b.	Euro-Dollar Development Ltd. 52F/10 NE; K-15 AFRO File 63-3969												81							
18c.	Euro-Dollar Development Ltd. 52F/10 NE; K-15												81							
19.	Euro-Dollar Development Ltd. 52F/10 NE; K-16 AFRO File 2.5240																	82		
20.	Euro-Dollar Development Ltd. 52F/10 NE;K-17 AFRO File 2.5250																		82	
21.	Euro-Dollar Development Ltd. 52F/10 NE; K-18 AFRO File 2.5379					82														
22.	Fairservice, R. 52F/10 NE; M-1 AFRO File 2.5477											83	83[2]							
23.	Hawes, J. 52F/10 NW; RR-4 AFRO File 2.8245											85	85							

Butler Lake Area

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KENORA COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
24.	Hudbay Mining Ltd. 52F/10 NW; JJ-2	?[3]			70[3] 75[3] 78[3]					77[3]										
25.	Hudbay Mining Ltd. 52F/10 NE; I-3				78	78														
26.	Hudson's Bay Exploration and Development Company Ltd. 52F/10 NE; C-1 AFRO File 2.1769												75							
27.	Hudson's Bay Exploration and Development Company Ltd. 52F/10 NE; C-2 AFRO File 2.1744				75								75							
28.	Hudson's Bay Exploration and Development Company Ltd. 52F/10 NE; C-3 AFRO File 2.1446				75								74							
29.	Hudson's Bay Oil and Gas Ltd. 52F/10 NW; II-1 AFRO File 2.2489									77										

GDIF FORM NO. 7

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KENORA COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
30.	Kakish, J. 52F/10 NE; J-1												71[4]							
31.	Pidgeon, G.L. 52F/10 NE; F-1			50	50	50														
32.	Sherritt Gordon Mines Ltd. 52F/10 NE; L-1 AFRO File 2.3098											79	79							
33.	Steep Rock Iron Mines Ltd. 52F/10 NW; CC-2											70								

NOTE:
1. Corrected magnetic data available; not plotted
2. HLEM data only available; interpretation from report
3. File consists of compilation map showing airborne EM survey (Hudson Bay Oil & Gas Co. Ltd., 1977), diamond drilling (Asarco Expl. Co., 1970; Hudbay Mining Ltd., 1978; Hudson Bay Expl. & Dev. Co. Ltd., 1975) and geology (source unknown)
4. Work report only; no data filed for assessment

TYPE OF WORK		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
Numbers below represent the year in which the work was done; e.g., 68 for 1968.																				
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KENORA	COMPANY/AUTHOR (file number)																			

GDIF FORM NO. 7

Butler Lake Area

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
1.	Asarco Exploration Company of Canada Limited	29	Aug./70	S	-45°	29.0	226.0	gf, py, po, cp	Cu, Pb, Ni, Ag
2.	Asarco Exploration Company of Canada Limited	D-30	Jan./71	W	-45°	68.0	296.0	py, gf	
3.	Asarco Exploration Company of Canada Limited	D-30A	Jan./71	E	-45°	108.0	255.0	py, gf	
4.	Asarco Exploration Company of Canada Limited (1)	D-32	Jan./71	W	-45°	207.0	207.0		
5.	Asarco Exploration Company of Canada Limited	35	Aug./70	S	-45°	35.0	244.0	py, po	Cu, Pb, Ni, Zn, Ag
6.	Asarco Exploration Company of Canada Limited	37	Aug./70	S	-40°	6.0	268.0	gf, py, po	Cu, Pb, Ni
7.	Canadian Nickel Company Ltd.	42733	Mar/70	181°	-60°	155.0	550.0	py, po, gf, cp, sp	Cu
8.	Canadian Nickel Company Ltd.	42783	Aug./70	222°	-50°	38.0	310.0	po, py, talc, gf	
9.	Canadian Nickel Company Ltd.	42784	Aug./70	223°	-50°	21.0	300.0	gf, po, py, cp	
10.	Canadian Nickel Company Ltd.	48516	Feb./71	30°	-50°	25.0	569.0	po, py, gf	
11.	Canadian Nickel Company Ltd.	48517	Feb./71	209°	-50°	68.0	502.0	py, po, gf, cp	
12.	Canadian Nickel Company Ltd.	48518	Mar./71	124°	-50°	70.0	457.0	gf, py, po	
13.	Canadian Nickel Company Ltd.	48525	Mar./71	218°	-55°	146.0	414.0	py, po, gf, cp	

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
14.	Canadian Nickel Company Ltd.	48562	Mar./72	59°	-50°	95.0	427.0	py, gf, lim, hem, talc, cp, Ni	
15.	Euro-Dollar Development Ltd.	A	Feb./79	184°	-65°	233.0	942.5	gf, py, po, sp, cp	
16.	Euro-Dollar Development Ltd.	B	Mar./79	184°	-68°	29.3	572.0	gf, py, po, mag	
17.	Euro-Dollar Development Ltd.	D-80	Feb./80	184°	-60°	205.0	1312.0	gf, py, po, cp, sp, mag	Au, Ag, Cu, Pb, Zn
18.	Euro-Dollar Development Ltd.	E-80	Feb./80	004°	-53°	232.5	236.0		
19.	Euro-Dollar Development Ltd.	F-80	Feb./80	004°	-58°	223.0	908.0	gf, py, po, cp, sp	Au, Ag, Cu, Pb, Zn
20.	Euro-Dollar Development Ltd.	G-80	Mar./80	179°	-63°	263.0	764.0	gf, py, po, cp, sp	Au, Ag, Cu, Pb, Zn
21a.	Euro-Dollar Development Ltd.	B-78E-82	Mar./82	190°	-84°	81.0	581.0	py, po, cp	
21b.	Euro-Dollar Development Ltd.	C-78E-82	Mar./82	190°	-80°	230.0	232.0		
21c.	Euro-Dollar Development Ltd.	C2-78E-82	Mar./82	190°	-85°	222.0	1220.0	py, po, cp	
22.	Euro-Dollar Development Ltd.	G-70E-82	Mar./82	10°	-85°	5.0	1550.0	py, po, cp	
23.	Euro-Dollar Development Ltd.	B-76E-82	Feb./82	10°	-63°	12.0	1550.0	py, po, cp, gf	
24a.	Euro-Dollar Development Ltd.	C-C2-C3-76E	Mar./82	190°	-77°	31.0	316.0	py, po	
24b.	Euro-Dollar Development Ltd.	F-76E-82	Mar./82	190°	-75°	15.0	345.0	py	

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
24c.	Euro-Dollar Development Ltd.	E-77E-82	Mar./82	190°	-76°	28.0	387.0		
25.	Euro-Dollar Development Ltd.	A-96E-82	Feb./82	10°	-64°	120.0	1114.0	py, po, gf, cp	
26.	Euro-Dollar Development Ltd.	A-108E-82	Feb./82	10°	-69°	28.0	1481.0	py, po, cp, gf	
27.	Euro-Dollar Development Ltd.	A-70E-82	Jan./82	190°	-65°	73.0	1138.0	py, po	
28a.	Euro-Dollar Development Ltd.	C-72E-82	Jan./82	10°	-85°	73.0	374.0	py, po	
28b.	Euro-Dollar Development Ltd.	CA-72E-82	Feb./82	10°	-71°	73.0	1443.0	py, po, cp	
28c.	Euro-Dollar Development Ltd.	CC-72E-82	Jan./82	10°	-78°	72.0	360.0	py	
28d.	Euro-Dollar Development Ltd.	3C-72E-82	Jan./82	10°	-65°	70.0	73.0		
29.	Euro-Dollar Development Ltd.	D-76E-82	Mar./82	190°	-84°	14.0	791.0	py, po	
30.	Hudbay Mining Ltd.	WL-78-3	Mar./78	188°	-45°	28.2	291.9	py, po, gf, cp, mag	Au, Ag
31.	Hudbay Mining Ltd.	WL-78-6	Mar./78	225°	-50°	157.4	498.7	py, po, gf, cp, mag	Au, Ag
32.[2]	Hudson's Bay Exploration and Development Co.	A-1	1975	S	-55°	36.0	351.0	po, py	
33.[2]	Hudson's Bay Exploration and Development Co.	A-2	1975	S	-50°	288.0	475.0	po, py	

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
34a.	Pidgeon, G.L.	1	1950	SW	-45°	0	80.0	yes	Au
34b.	Pidgeon, G.L.	2	1950	SE	-45°	?	48.0	yes	
34c.	Pidgeon, G.L.	3	1950	NW	?	0	48.0	yes	

Notes: 1. No bedrock reached; conductive lake bottom

2. No logs available; not for assessment
Information from file F/10 NW JJ-2

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
24,29*	By: Questor Surveys Ltd. For: Hudson's Bay Oil & Gas Co. Ltd. 52F/10 NW II-1 and Hudbay Mining Ltd. 52F/10 NW JJ-2	Electromagnetic	400'	N-S & E-W	660'

*Numbers refer to Property Location Map.

GDIF FORM NO. 4

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
1.	Lake Sediment Sampling Rock Geochemistry	Sb, As, Bi, Cd, Co, Cu, Pb, Li, Mn, Mo, Ni, Nb, Ag, Te, Th, Ti, W, U, Y, Zn, Fe, Au, Be, Ce, Cr, Ge, Hg, Ta, Sn, V, Zr	Euro-Dollar Development Ltd.	Kenora Assessment Files 52F/10 NE; K-3
2.	Lake Sediment Sampling (4 areas)	Co, Ni, Cu, Zn, Pb, Ag, U_3O_8, As, W	Euro-Dollar Development Ltd.	Kenora Assessment Files 52F/10 NE; K-4

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result
1	Uranium - Lead (Zircon)	Volcanic Rock	OGS Map P.2843	ca 2776 Ma

Note: Due to scale of map P.2843 location of Site 1 is approximate.

GDIF FORM NO.6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Kenora.

Northern Queen Mine

ODM GENERAL INDEX SEARCH

Words searched: Butler Lake, Dinorwic (Lake), Dryden area, Hartman Tp., H.W. 130, 131, 132, 133, 135, Indian Reserve No. 27, Mary Lake, Northern Queen Occ., Pidgeon, G.L., Southworth Tp., Wabigoon (Lake), Wabigoon Soapstone Co., Zealand Tp.

Index Volume	Listing:	Report Volume	Part	Page
1.	Dinorwic			
	Gold Mining near	7		124,179
	Rocks near	22	1	231
	Dinorwic Lake	7		121
	Rocks on	4		67
	Northern Queen Gold Mine			
	Ore of, character	7		171
	Work at (1897)	7		77,124
	(1898)	8		275,276
	Wabigoon			
	Brick-clay	N.O.		254
	Gold Mining near	7		124
		25	1	66
	Rocks, Huronian	21	2	61
	Laurentian Granite	8		279
		20	1	190
		22	1	232
	Rocks			
	Slate	4		86
	Wabigoon Lake			
	Diabase near	7		183
	Glaciation	13	2	101
2.	Butler Lake			
	Glacial striae	26		165
	Mining claims	26		186
	Rocks of area	26		172
	agglomerate, photo	26		173
	Dinorwic			
	Keewatin rocks near	26		170,172
	Dryden Gold Area			
	Report and map by Ellis Thomson	26		163-189
	HW 133 Mineral Location			
	Soapstone, analyses and description	32	6	23-25
	Northern Queen Gold claim			
	Developments; values small	26		186
	Pidgeon, E.D.G.			
	of Wabigoon Soapstone Co.	32	6	23
	Southworth Tp.			
	Rocks Keewatin	26		169,170
	Later Granite	26		176,177
	Wabigoon			
	Mineral claims near	26		187
	Rocks	26		169,170
				176

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
2.	Wabigoon			
	Soapstone near	31	1	28
		32	1	29
		33	1	26
		34	1	35
		35	1	41
	Wabigoon Lake			
	Barritt Bay			
	Basic dike, description	26		180
	Gold prospecting	26		187
	Glacial striae	26		165
	Rocks, later granite and Keewatin			
	notes and photo	26		167-172
				176,177
	Soapstone	32	6	23-25
	Wabigoon Soapstone Co.			
	Capital and date of charter	31	1	46
	Mining in Zealand Tp.	32	6	23-25
		35	1	41
	Object	32	1	29
	Zealand Tp.			
	Magnetite note	I.O.		176
	Rocks Keewatin	26		169,172
	Keweenawan (?)	26		176
	Soapstone, analysis and description	32		23-25
3.	Wabigoon Lake			
	Soapstone	36	1	41
	Wabigoon Soapstone Co.			
	Operations (1926)	36	1	41
4.	Butler Lake			
	Rocks	50	2	9,10,12
	Dinorwic Lake, Southworth Tp.			
	Glacial deposits	50	2	43,44
	varved clay, photo	50	2	45
	Rocks	50	2	9,12,16
	structure	50	2	31
	Topography	50	2	4,5
	Wave erosion	50	2	45

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
4.	Dryden-Wabigoon Area			
	Geology, report on by J. Satterly	50	2	
	Hartman Tp.			
	Glacial deposits	50	2	44
	Rocks	50	2	29,30, 38
	see also map 50e with	50	2	
	Northern Queen Gold Mine			
	Zealand Tp.			
	Report on	50	2	52
	Pidgeon E.G.			
	Soapstone claims, Wabigoon	50	2	53
	Southworth Tp.			
	Rocks	50	2	9,16,19
	structure	50	2	31
	Varved clay, photo	50	2	45
	Wabigoon, Zealand Tp.			
	Soapstone near	50	2	53
	Wabigoon Lake			
	Geology of area, report on	50	2	
	Wabigoon Soapstone Co. Ltd.			
	Property, report on	50	2	53,54
	Wabigoon volcanics			
	Petrography	50	2	10
	Stratigraphy and structure	50	2	26,31
8.	Wabigoon Lake area, Kenora Dist.	IMR040		38-40
	Wabigoon Soapstone Co. Ltd.			
	Zealand Tp., Kenora District			
	mining property, report on	IMR040		38-40
9.	Dinorwic Lake			
	Wabigoon Lake Area, Kenora District	MP 089		5
		NOEGTS 022		10,12,13
	Northern Queen Occurrence			
	Zealand Tp., Kenora Dist.	MDC16		30
	Wabigoon Fault			
	Wabigoon L. area, Kenora District	MP 89		4,6,7,
	Wabigoon Lake Area, Kenora Dist.			
	Report (quaternary) and map 5059 on, 1980			
	by M.A. Roed	NOEGTS 022		
	Wabigoon-Stormy-Eagle Lakes Area, Kenora Dist.			
	Summary of field work, 1977			
	by C.E. Blackburn	MP 075		40-43

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched

Index Volume	Listing	Report Volume	Part	Page

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL COMPILATION MAPS		
Beard, R.C., Garrett, G.L.	1976	Gold Deposits of the Kenora-Fort Frances Area, Districts of Kenora and Rainy River. Accompanied by Chart A.	MDC 16	1" to 4 miles (1:253,440)
Blackburn, C.E.	1981	Kenora-Fort Frances, Kenora and Rainy River Districts. Geological Compilation Series.	OGS Map 2443	1" to 4 miles (1:253,440)
Davies, J.C.	1964	Manitou Lakes Sheet, Districts of Kenora and Rainy River. Geological Compilation Series.	ODM Map P. 242	1" to 2 miles (1:126,720)
Gordon, J.B.	1977	Gold Deposits of Ontario, West Central Sheet, Districts of Kenora (Patricia Portion), Thunder Bay, Algoma and Cochrane. Mineral Deposits Series.	OGS Map P. 1227	1" to 16 miles (1:1,013,760)
		GEOPHYSICAL MAPS		
GEO-ANALYSIS (1981) LTD.	1981	The Identification of Structural Linears From Landsat Imagery In Northwestern Ontario. Energy, Mines and Resources Canada, Earth Physics Branch, Seismological Service of Canada.	OF 82 - 13	9 Images at 1:250,000 5 Maps at 1:1,000,000
O.D.M. - G.S.C.	1961	Wabigoon Sheet 52F/10 Aeromagnetic Series	Geophysics Paper 1154	1" to 1 mile (1:63,360)
O.G.S. - G.S.C.	1977	Airborne Gamma-Ray Spectrometry Survey, Dryden Sheet Districts of Kenora and Rainy River. Geophysical Series.	Prelim. Maps P. 1460 to P. 1466	1" to 4 Miles (1:253,440)

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Roed, M.A.	1980	Wabigoon Lake Area, NTS 52F/NE, Kenora District, Ontario. Northern Ontario Engineering Geology Terrain Study. Accompanied by Map 5059.	NOEGTS 022	1:100,000
Zoltai, S.C.	1965	Surficial Geology, Kenora - Rainy River. Ontario Department of Lands and Forests.	Map S165	1" to 8 miles (1:506,880)
		MINERAL POTENTIAL MAPS		
Springer, J.S.	1978	Dryden Sheet, Districts of Kenora and Rainy River. Mineral Deposits Series.	OGS Map P. 1530	1:250,000
Springer, J.S., Robertson, J.A., Vos, M.A.	1982	Mineral Potential Map of Ontario West Central Sheet. NTS 41 NW, 42W, 43SW, 52, 53 SE	OFR 5326	1" to 16 miles (1:1,013,760)
		GEOLOGICAL REPORTS AND MAPS		
Blackburn, C.E.	1977	Eagle Lake - Wabigoon Lake - Stormy Lake Area, District of Kenora; in Summary of Field Work, by the Geological Branch, edited by V.G. Milne, O.L. White, R.B. Barlow and J.A. Robertson	OGS MP 075	p. 40 - 43
Blackburn, C.E., Hailstone, M.R., Parker, J., and Storey, C.C.	1986	Kenora Resident Geologist Area, Northwestern Region; in Report of Activities 1985, Regional and Resident Geologists, edited by C.R. Kustra	OGS MP 128	p. 21 - 22
Easton, R.M.	1986	Geochronology Compilation Map for Ontario: Sheet 4: West - Central Ontario, All Isotopic Systems; Ontario Geological Survey, Map P. 2843, Compilation Series - Preliminary Map.	OGS Map P.2843	1" to 16 miles (1:1,013,760)

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Goodwin, A.M.	1965	Preliminary Report on Volcanism and Mineralization in the Lake of the Woods - Manitou Lake - Wabigoon Region of Northwestern Ontario.	ODM PR 1965-2	1" to 4 miles (1:250,000)
Goodwin, A.M.	1970	Archean Volcanic Studies in the Lake of the Woods - Manitou Lake - Wabigoon Region of Western Ontario	OGS OFR 5042	
Hewitt, D.F.	1972	Talc in Ontario; Ontario Department of Mines and Northern Affairs	ODM IMR 040	p. 38-40
Satterly, J.	1941	Geology of the Dryden - Wabigoon Area Accompanied by Map 50e	ODM Vol. 50 Part 2	1" to 1 Mile (1:63,360)
Storey, C.C.	1984	Preliminary Report of the Building and Ornamental Stone Inventory, Part 2. Kenora and Rainy River Districts.	OGS OFR 5522	p. 127
Trowell, N.F., Blackburn, C.E., and Edwards, G.R.	1980	Preliminary Synthesis of the Savant Lake - Crow Lake Metavolcanic - Metasedimentary Belt, Northwestern Ontario, and its Bearing upon Mineral Exploration Accompanied by Chart A	OGS MP 89	p. 4-7

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages

GDIF FORM NO. 9

NOTES AND ADDENDA

AERIAL PHOTOGRAPH INDEX

Scale 1" to ½ mile (OGS)

1982

ROLL	LINE	PHOTOGRAPHS
25	4926	80-92
31	4927	85-98
32	4928	165-179
32	4929	38-52
27	4930	168-180

1965

55	4926	15-28
67	4927	130-141
48	4928	14-24
29	4929	80-90
14	4930	222-235
8	4931	177-190

Scale 1" to 1 Mile (EMR)

1952

A 13560	73-76 *
A 21200	87-91 *
A 21506	96-99 *

* Photographs on file in Resident Geologist's Office, Kenora

ONTARIO BASE MAP SERIES

Scale 1:20,000

20	15	5100	54900 +
20	15	5200	54900 +
20	15	5300	54900 +
20	15	5100	55000 +
20	15	5200	55000 +
20	15	5300	55000 +
20	15	5100	55100 +
20	15	5200	55100 +
20	15	5300	55100 +

\+ Published maps currently available

GDIF FORM NO.10

MINERAL DEPOSITS FILE

Note: A deposits file is maintained at the Kenora Resident Geologist's Office, which contains the published data on the following mineral deposits:

1. Barritt Bay Occurrence
2. Northern Queen Mine
3. North Shore of Butler Lake
4. Pidgeon Occurrence (H.W. 133)
5. Pidgeon-Wabigoon Lake Occurrence (Indian Reserve No. 27 Occurrence)

Copeland Id

25

27

Wabigoon

3

32

25

Bowen Pt

Daunais Bay

24 29

Blackburn Cr

Kelpyn Bay

Wabigoon

Hughes

3

Barritt Bay

5

Lake

1

1

Mud Bay

Butler

Achennonnis

23

33

Mory L

Lake Butler

2

2

4

SOU

Ministry of
Northern Development
and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 341

(Map 1 of 2)

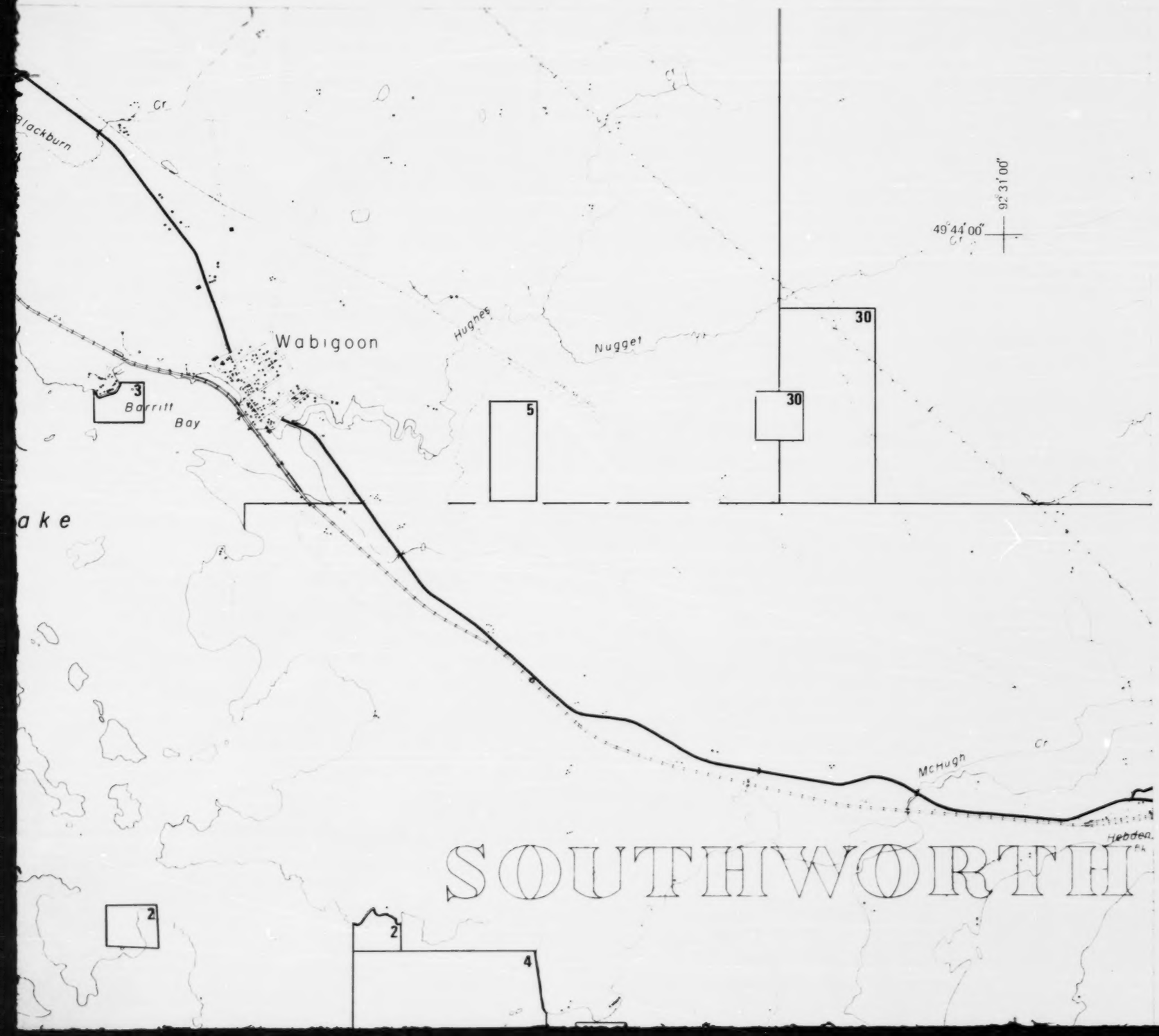
BUTLER LAKE AREA

DISTRICT OF KENORA

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined.
See listing in text pages.

1
Mud
Bay
Butler
Lake
Butler
23
33
Mary
L
Pitt
L
Lake
2
2
4
31
22
Olsen
Bay
Orchid
L
92°44'00"
49°38'30"
Threefern
Pichenninnis
Marilyn
L
Tremeer
L
Watt
L
Larson
L
Paulson
L
SOU
Wabigoon Lake
I.R. No. 27

SOUTHWORTH

McHugh Cr

Hodder

2
2
4
1
31
22
1
1
Poulson
Bay
Dinorwic
Wabigoon Lake
2
I.R. No. 27
Larson L
26, 28
Lake
Paulson L
1

EXPLORATION DATA FILE AREAS

■ /① \⑥ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area exploration.

Unnumbered Property Locations

— — — — —	6
—✓—✓—✓—	7a
—x—x—x—	7b
— — — — —	8, 12
———————	9, 11, 18a
—△—△—△—	10
—▲—▲—▲—	13
— - — - —	14
—·—·—·—	15
. . . . .	16, 20, 21
—·—·—·—	17
———————	18b
— — — — —	18c
—x—x—x—x—	19

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

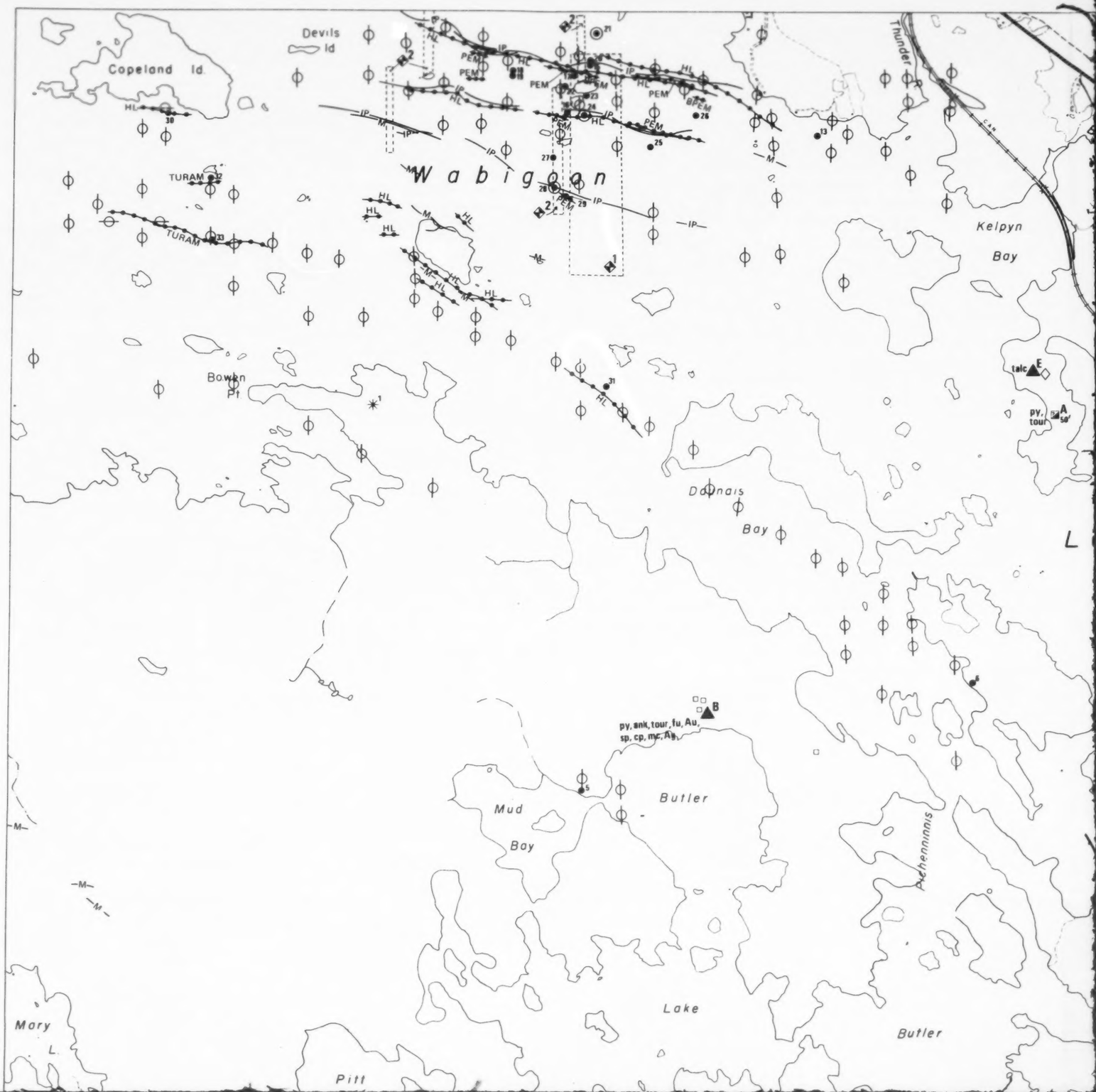
- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number location approximate

GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly Length of anomaly along flight line
- Airborne electromagnetic anomaly Location of anomaly along flight line
- Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ARA — Airborne radiometric anomaly
- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horzontal loop; VLF - Very low freq; Turam; JEM - Crone Em - 16)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio-frequency magnetic anomaly (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly
- BPEM — Borehole Pulse Electromagnetometer Anomaly
- PEM — Pulse Electromagnetometer Anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Rock quarry
- Adit
- Sand and/or gravel pit
- Open pit



Devils Id

Wabigoon

Thunder R.

Blackburn

Cr

Kelpyn Bay

talc E

py, tour A 50'

Cu F

Barritt Bay

cp, py, mar, lim, asp, po D 60'

Wabigoon

Hughes

Nugget

49°44'00"

92°31'00"

Cr

PIPELINE (GAS)

G Cu

Donnais Bay

Lake

py, ank, tour, fu, Au, sp, cp, mc, Ag B

Mud Bay

Butler

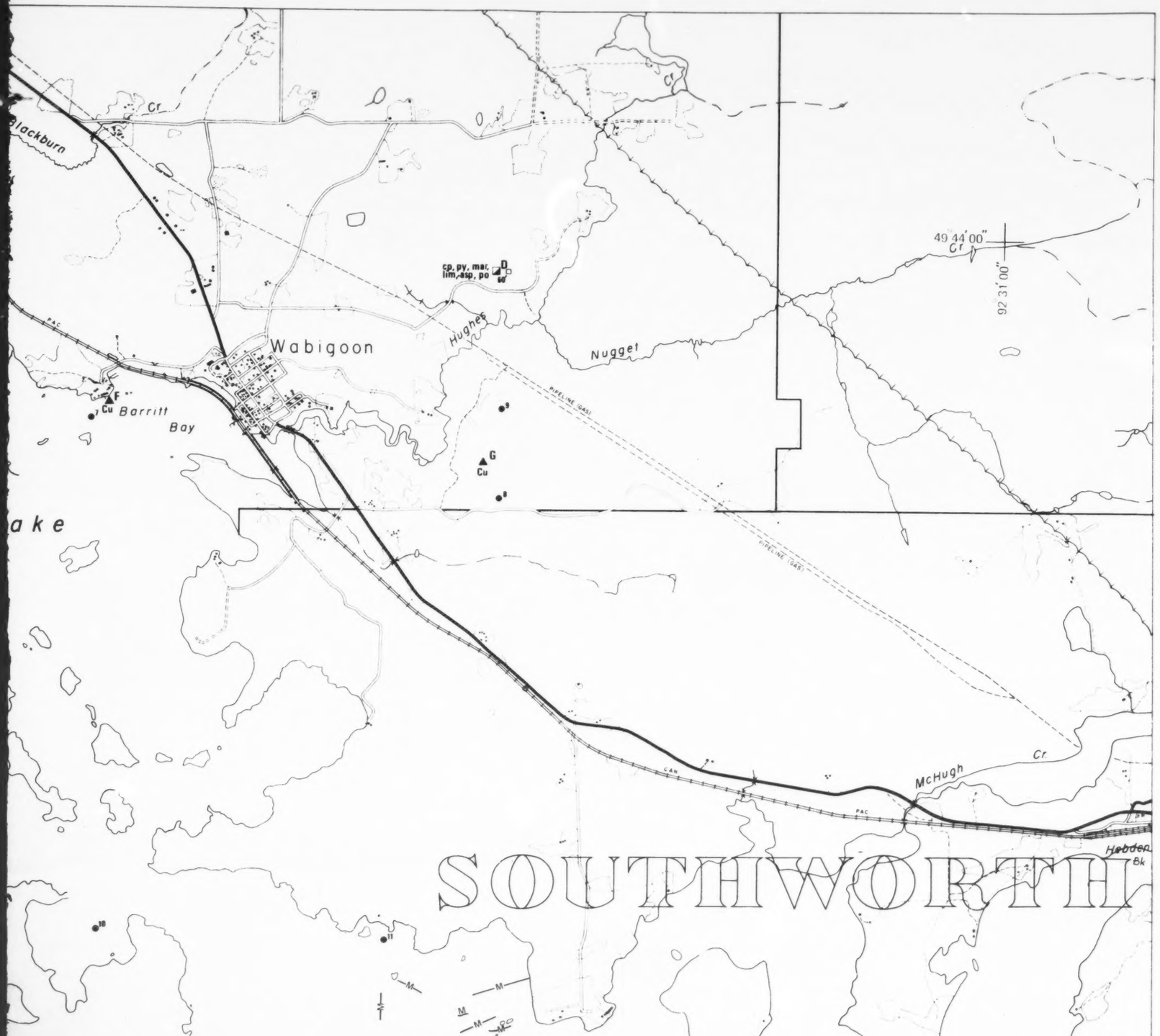
Achennnnis

Lake

Butler

McHugh

SOUTHWORT



Ministry of Northern Development and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 341

(Map 2 of 2)

BUTLER LAKE AREA

DISTRICT OF KENORA

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter
- py A. 50' — Mineral occurrence with shaft, exact location unknown, depth given with reference letter.

DRILLHOLE

- ●² — Location of single drillhole, with reference number
- ◉² — Location of closely spaced group of drillholes, with reference number
- (?)² — Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- Property with drillholes which have not been plotted on map,

Open pit

Ground radiometric anomaly

IP — Induced polarization anomaly

SP — Self potential anomaly

AFMAG — Audio-frequency magnetic anomaly (total intensity)

R — Resistivity anomaly

GR — Gravity anomaly

BPEM — Borehole Pulse Electromagnetometer Anomaly

PEM — Pulse Electromagnetometer Anomaly

MISCELLANEOUS DATA

Trenching, pit

Rock quarry

Adit

Sand and or gravel pit

Open pit

Stripped area

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

py, ank, tour, fu, Au, sp, cp, mc, Ag

Mud Bay

Butler Lake

Pitt L.

Pichenninnis Cr

Marilyn L

Watt L

Pichenninnis

Butler Lake

py, tour, calc, Au, asp

Poulson

Olsen Bay

Larson L

Paulson L

McHugh

SOUTHWORT

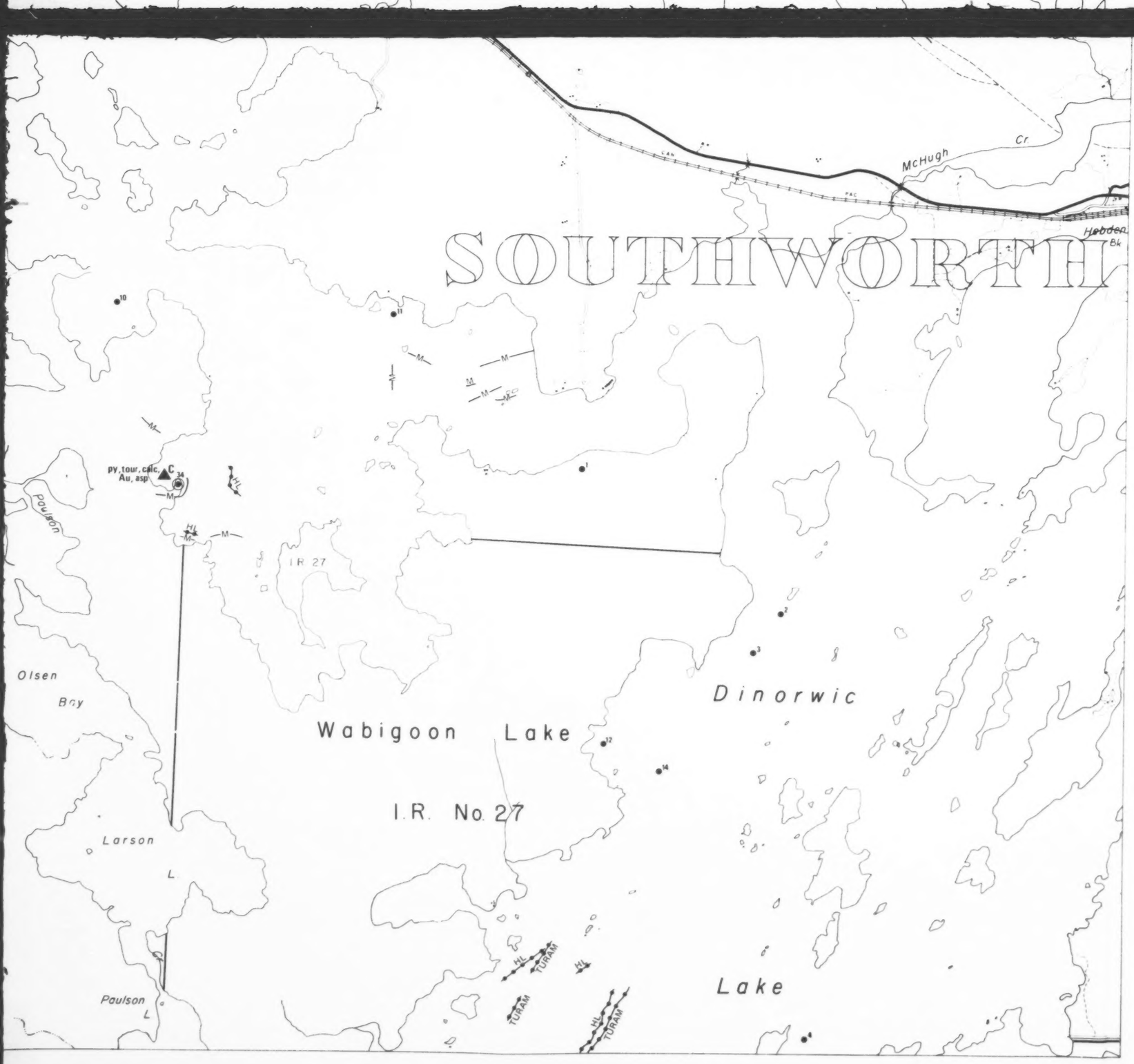
I.R. 27

Wabigoon Lake

I.R. No. 27

Dinorwic Lake

HL TURAM



Au A. 84' — Mineral occurrence with shaft, depth given with reference letter

Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter

cp A. — Mineralized float with reference letter

py A. 50' — Mineral occurrence with shaft, exact location unknown, depth given with reference letter.

DRILLHOLE

- ●² — Location of single drillhole, with reference number
- ◉² — Location of closely spaced group of drillholes, with reference number
- (?)² — Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- ○² — Property with drillholes which have not been plotted on map, with reference number
- ⊕² — Reverse circulation drillhole; churn drilling, with reference number